

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. Lease Designation and Serial No. U-50439
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name N/A
7. Name of Operator Wintershall Oil & Gas Corp. 303/595-4051		7. Unit Agreement Name N/A
8. Address of Operator 5675 DTC Blvd., Suite 200, Englewood, CO 80111		8. Farm or Lease Name Wintershall Federal
9. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1090' FNL and 820' FEL At proposed prod. zone		9. Well No. #10-31
10. Distance in miles and direction from nearest town or post office* 11 miles East of Hatch Trading Post		10. Field and Pool, or Wildcat Wildcat
11. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. line, if any) approx. 690'		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T39S - R26E
12. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. None		12. County or Parrish 13. State San Juan Utah
13. Elevations (Show whether DF, RT, GR, etc.) 5421' GR		13. Approx. date work will start* December 15, 1985
23. PROPOSED CASING AND CEMENTING PROGRAM		
Size of Hole	Size of Casing	Weight per Foot
12-1/4"	9-5/8"	36#
7-7/8"	5-1/2"	15.5#
Setting Depth	Quantity of Cement	
1890'	1150 sx - or suffic. to circ.	
6500'	250 sx or sufficient to cover zones of interest.	

Wintershall Oil & Gas Corp. proposes to drill a well to 6250' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING

DATE: 12/2/85
 BY: John R. Bay
 WELL SPACING: 6-3(C)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

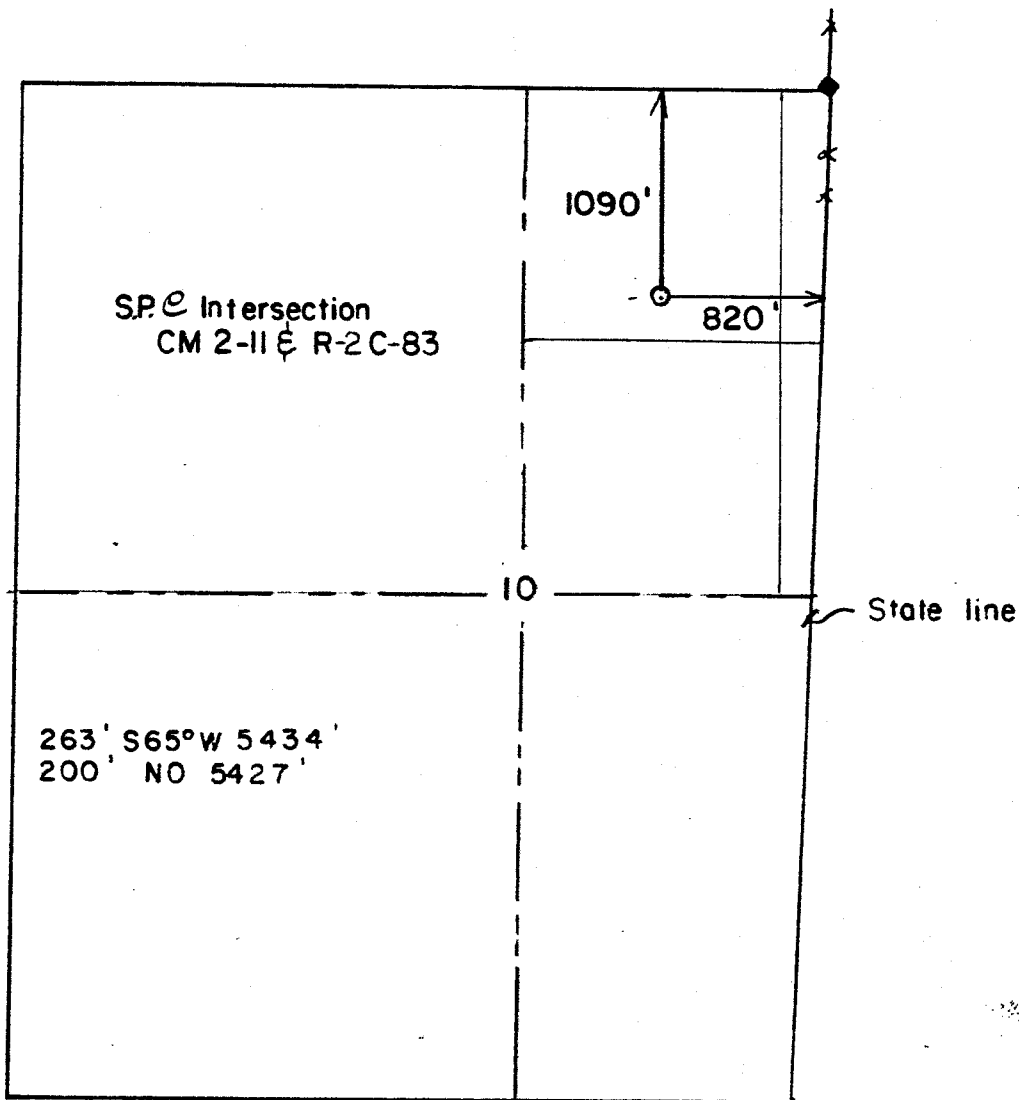
24. Signed: Sue Y. Green Title: Consultant for Wintershall Oil & Gas Corp. Date: 11/18/85
 (This space for Federal or State office use)

Permit No. 43-037-31227 Approval Date _____

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

PLAT #1

WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator WINTERSHALL O & G		Well name 10-31 Federal	
Section 10	Township 39 South	Range 26 East	Meridian SLM
Footages 1090' FN E 820' FE		County/State San Juan UT	Elevation 5421'
Formation	Dedicated Acreage	Requested by J Lowry	
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>11-11-'85</p> <p><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S. Utah 5705</p>			

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

WINTERSHALL FEDERAL #10-31
1090' FNL and 820' FEL
Sec. 10, T39S - R26E
San Juan County, Utah

RECEIVED

NOV 21 1985

DIVISION OF OIL
& GAS & MINING

Prepared For:

WINTERSHALL OIL & GAS CORP.

By:

PERMITCO INC.
1020-15th Street, Suite 22-E
Denver, Colorado 80202

Copies Sent To:

- 4 - BLM - Moab, Utah
- 1 - BLM - Monticello, Utah
- 1 - Div. of Oil, Gas & Mining - SLC, Utah
- 4 - Wintershall Oil & Gas Corp. - Englewood, CO
- 1 - John Lowry - Towaoc, Colorado

Permitco inc.

A Petroleum Permitting Company

ONSHORE ORDER NO. 1
Wintershall Oil & Gas Corp.
Wintershall Federal 10-31
1090' FNL and 820' FEL
Sec. 10, T39S - R26E
San Juan County, Utah

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

1. The surface formation and estimated formation tops to be encountered are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Morrison	145'	+5288'
Entrada	873'	+4560'
Carmel	1093'	+4340'
Navajo	1148'	+4285'
Shinarump	2955'	+2478'
Cutler/DeChelly	3076'	+2357'
Hermosa	4808'	+ 625'
Upper Ismay	5878'	- 445'
Lower Ismay	5980'	- 547'
Desert Creek	6027'	- 594'
Akah	6137'	- 704'
T.D.	6250'	- 817'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Water	Navajo	1148'
Oil/Gas	Desert Creek	6027'
Oil/Gas	Ismay	5878'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.

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DRILLING PROGRAM

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. a. Casing

The proposed casing program is as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-1890'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-6250'	7-7/8"	5-1/2"	15.5#	J-55	LT&C	New

- b. Cement

The cementing program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-1890'	1150 Class B cement or sufficient to circulate to surface.
<u>Production</u>	<u>Type and Amount</u>
5250'-6250'	250 sx Class B (low fluid loss); or sufficient to cover zones of interest.

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified one day prior to cementing surface casing and testing shoe. Call Mike Wade at 801/587-2201 or 801/587-2026.

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DRILLING PROGRAM

c. Auxiliary Equipment will be as follows:

1. Kelly cock.
2. Float above the bit.
3. A sub with a full opening valve will be on the floor when the kelly is not in use.
4. Monitoring of the system will be done visually.

5. Drilling fluid will be as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-3000'	Gel Water	8.5-9.0	35	N/C	7
3000-6250'	Gel Chem	9.5-10.0	40	12	11

6. Coring, logging and testing programs are as follows:

- a. Cores are possible in the Ismay and Desert Creek formations.
- b. The logging program will consist of the following: A DIL/SFL and BHC Sonic will be run from base of surface casing to T.D. A Litho Density-Neutron, Dipmeter and Velocity Survey will also be run.
- c. Drill Stem Tests will be run in the Ismay and Desert Creek formations if shows warrant.

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.

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San Juan County, Utah

DRILLING PROGRAM

7. Abnormal conditions, bottom hole pressures and potential hazards.
 - a. The maximum bottom hole pressure to be expected is 3500 psi.
 - b. Wintershall Oil & Gas Corp. plans to spud the Wintershall Federal #10-31 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached T.D.
 - c. The operator will contact the San Juan Resource Area at 801/587-2201, 48 hours prior to beginning any dirt work on this location.
 - d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.
 - e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.
 - f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.
 - g. If a replacement rig is planned for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

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DRILLING PROGRAM

8. Notification requirements (cont.)

- h. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five business days following the date on which the well is placed on production.
- i. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.
- j. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate surface Manager.
- k. Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.
- l. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, Well number, location by 1/4 1/4 section, township and range, lease number.
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

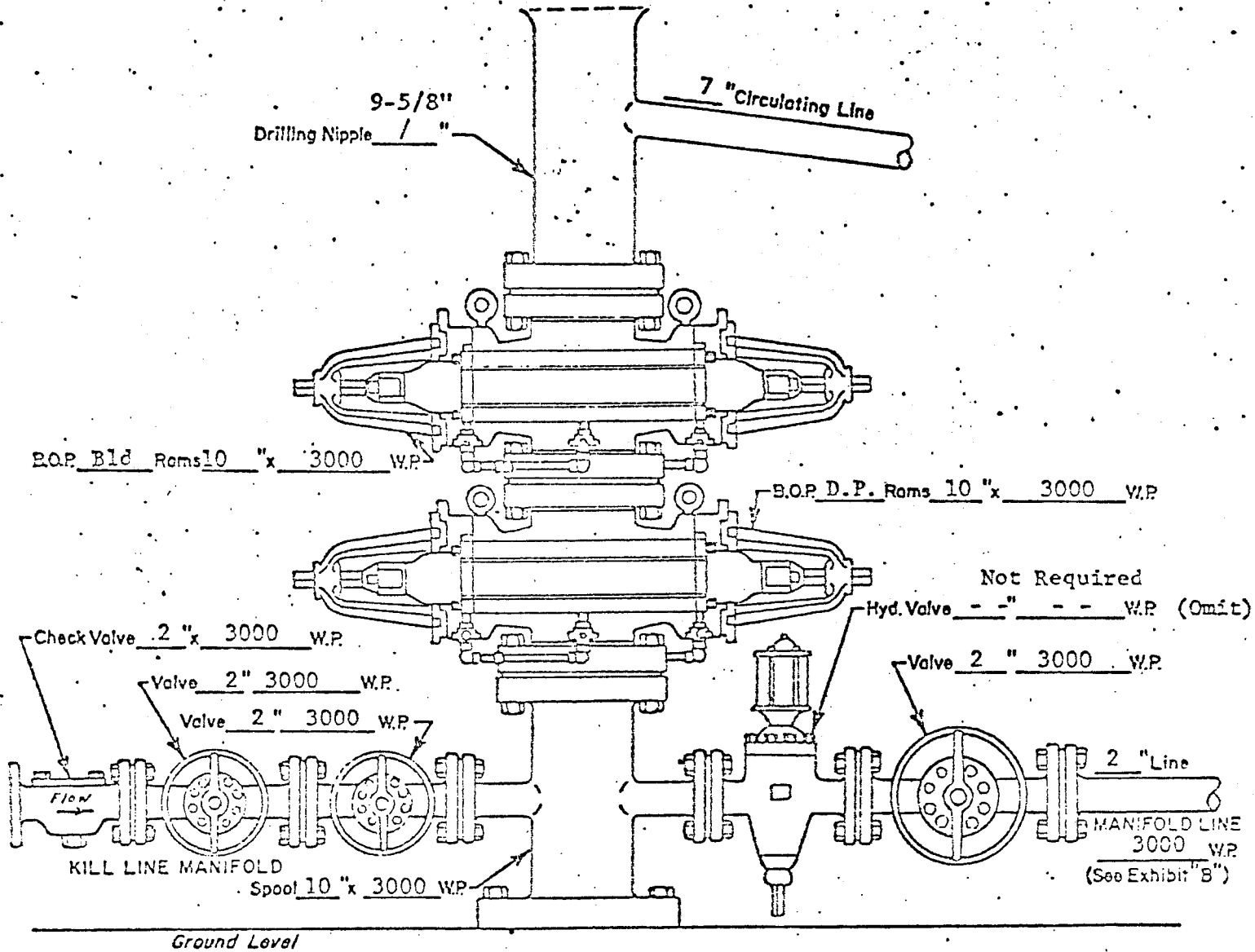
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A Petroleum Permitting Company

COLEMAN DRILLING CO.

WELL NAME: _____

LOCATION : _____



WELL HEAD B.O.P.

3000 W.P.

☒ Hydraulic

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Wintershall Federal 10-31
1090' FNL and 820' FEL
Sec. 10, T39S - R26E
San Juan County, Utah

SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located 11 miles east of Hatch Trading Post, Utah.
- b. Directions to the location from Hatch are as follows:

Take the Pleasant View Road (Hovenweep Road) east and proceed 6.5 miles until it intersects with the Old Bluff road. Turn right (south) and proceed along the Old Bluff road for two miles. Turn left (north) and continue on the Pleasant View Rd. for 5 miles. Turn right (south) onto new access (flagged) and proceed approximately 2000 feet to the location.
- c. The roads in the area are primarily county roads. See Maps #1 and #2.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.
- g. The archeological site along the proposed access (flagged in blue will be avoided.

2. Planned Access Roads

- a. The last 2000 feet will be new access. The road will be flat bladed initially during construction and upgraded if production is established.
- b. The maximum total disturbed width will be 20 feet.

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SURFACE USE PLAN

2. Planned Access Roads (cont.)

- c. The maximum grade will be 6%+.
- d. Water turnouts will be installed as needed. Culverts will be installed if necessary.
- e. If drilled during wet winter weather, portions of the access may require surfacing material to prevent maintenance problems. Material will be removed during reclamation.
- f. No cattleguards will be necessary.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.
- h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.
- i. The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #3).

- a. Water Wells - none
- b. Injection or disposal wells - none
- c. Producing Wells - none
- d. Drilling Wells - none

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A Petroleum Permitting Company

ONSHORE ORDER NO. 7
Wintershall Oil & Gas Corp.
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SURFACE USE PLAN

4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be desert tan.
- b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.
- c. Tank batteries will be placed as shown on Diagram #1.
- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

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SURFACE USE PLAN

4. Production Facilities (cont.)

- i. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from a private source.
- b. Water will be trucked to location over the county roads in the area.
- c. No water well is to be drilled on this lease.
- d. Use of water for this operation will approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

6. Source of Construction Material

- a. Road surfacing material will be obtained from a commercial source. Pad construction material will be native.

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SURFACE USE PLAN

7. Methods of Handling Waste Disposal

- a. The reserve pit will not be lined unless pourous material is encountered. At least half of the capacity will be in cut.
- b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
- c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free. If a trash cage is used, its contents will be hauled to an approved landfill.
- d. Produced waste water will be confined to a unlined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).
- e. A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at 801/587-2705.

8. Ancillary Facilities

- a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. See Diagram #2 for rig layout. See Diagram #3 for cross section of drill pad. See Diagram #4 for cuts and fills.

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SURFACE USE PLAN

9. Wellsite Layout (cont.)

- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagram #2 and #4. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 10 inches of soil material will be removed from the location and stockpiled separate from the trees on the west side. Topsoil along the access will be reserved in place.
- d. Access to the well pad will be from the north.

10. Reclamation

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2201) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

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SURFACE USE PLAN

10. Reclamation of Surface (cont.)

- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 Feet
2-4%	Every 100 Feet
4-5%	Every 75 Feet
5+%	Every 50 Feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

3 lbs/acre Crested wheatgrass (Agropyron desertorum)
2 lbs/acre Fourwing Saltbush (Atriplex Canenscens)
3 lbs/acre Western wheatgrass (Agropyron smithii)
1 lbs/acre Wild sunflower (Helianthus annuus)

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. a. Surface Ownership

Federal

b. Mineral Ownership

Federal

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SURFACE USE PLAN

12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan.
- d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BLM approved archeologist only if damage occurs.
- e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- f. An archeological study was done by LaPlata Archaeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report will be submitted directly by LaPlata Archeological Consultants.
- g. Your contact with the District Office is: Greg Nobel, 801/259-6111, P.O. Box 970, Moab, Utah 84532.

The Resource Area Manager's address is P.O. Box 7, Monticello, Utah 84535. Your contact is Rich McClure, 801/587-2201.

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1090' FNL and 820' FEL
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San Juan County, Utah

SURFACE USE PLAN

13. Lessee's or Operator's Representative and Certification

Permit Matters

Permitco Inc.
Lisa L. Green
1020-15th Street
Suite 22-E
Denver, Co. 80202
303/595-4051

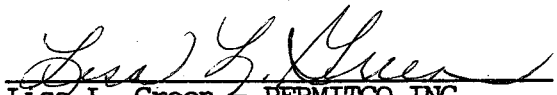
Drilling & Completion Matters

Wintershall Oil & Gas Corp.
5675 DTC Blvd.
Suite 200
Englewood, CO 80111
303/694-0988 (W) - David Howell
303/565-7773 (W) - John Lowry

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wintershall Oil & Gas Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

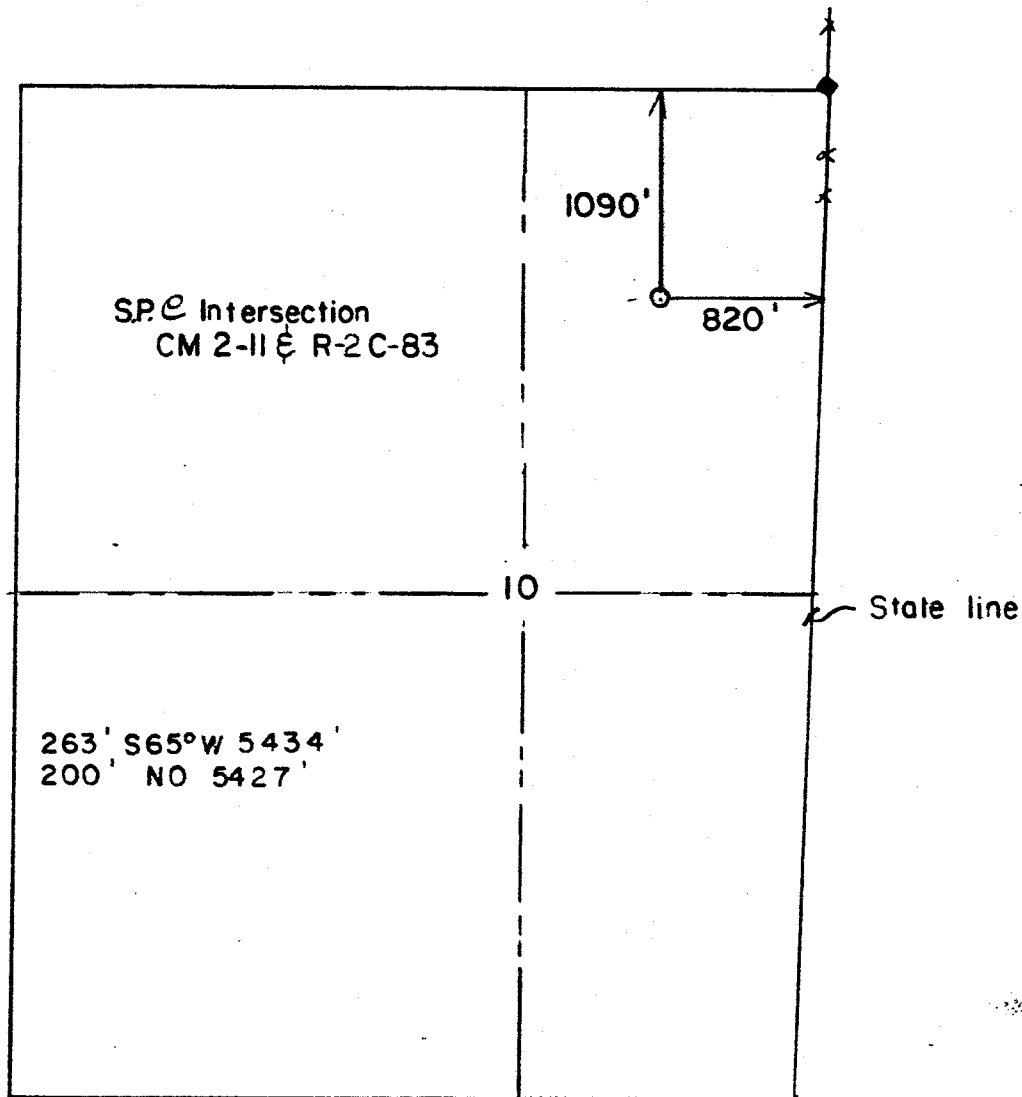
November 18, 1985
Date: _____


Lisa L. Green - PERMITCO INC.
Authorized Agent for:
Wintershall Oil & Gas Corp.

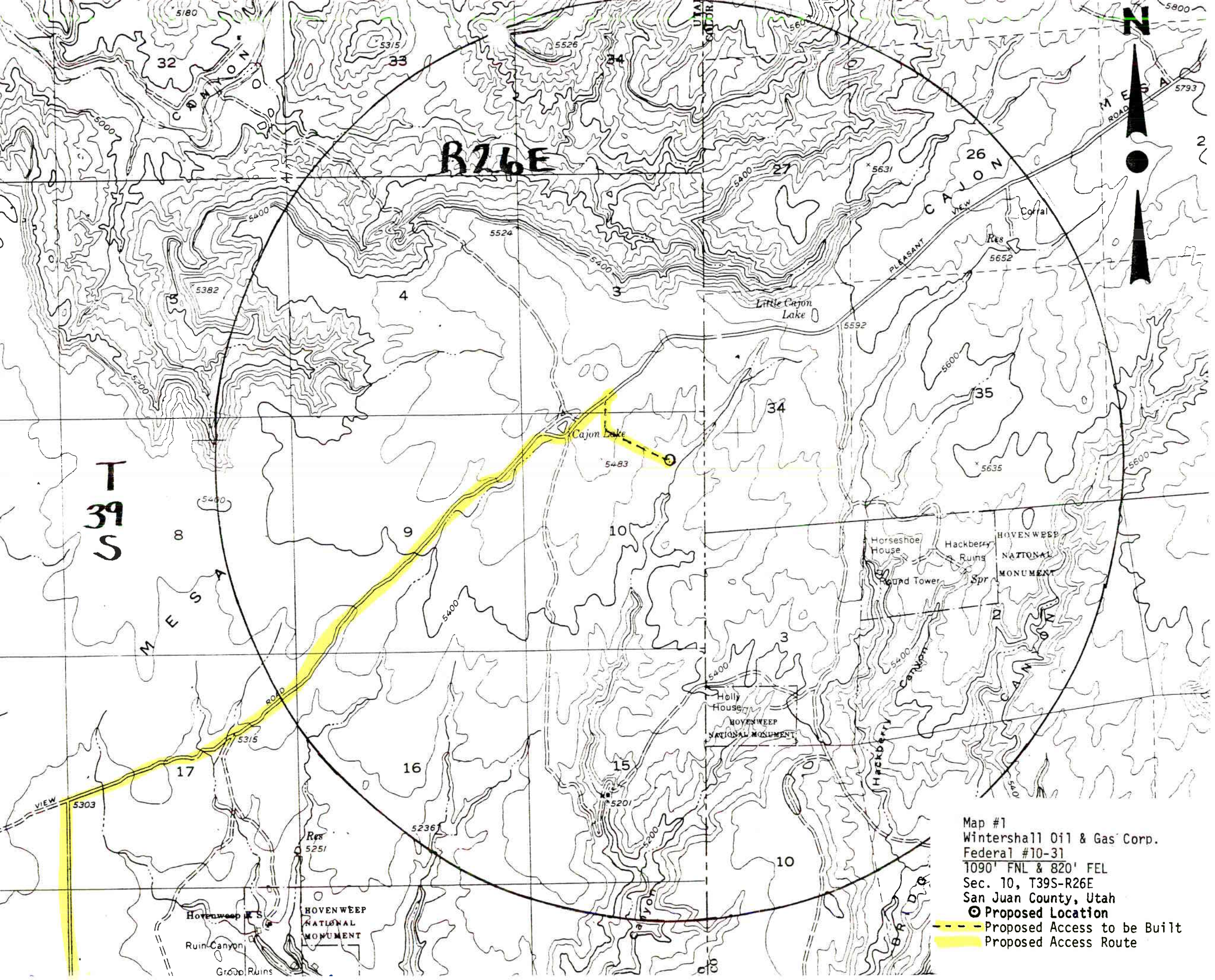
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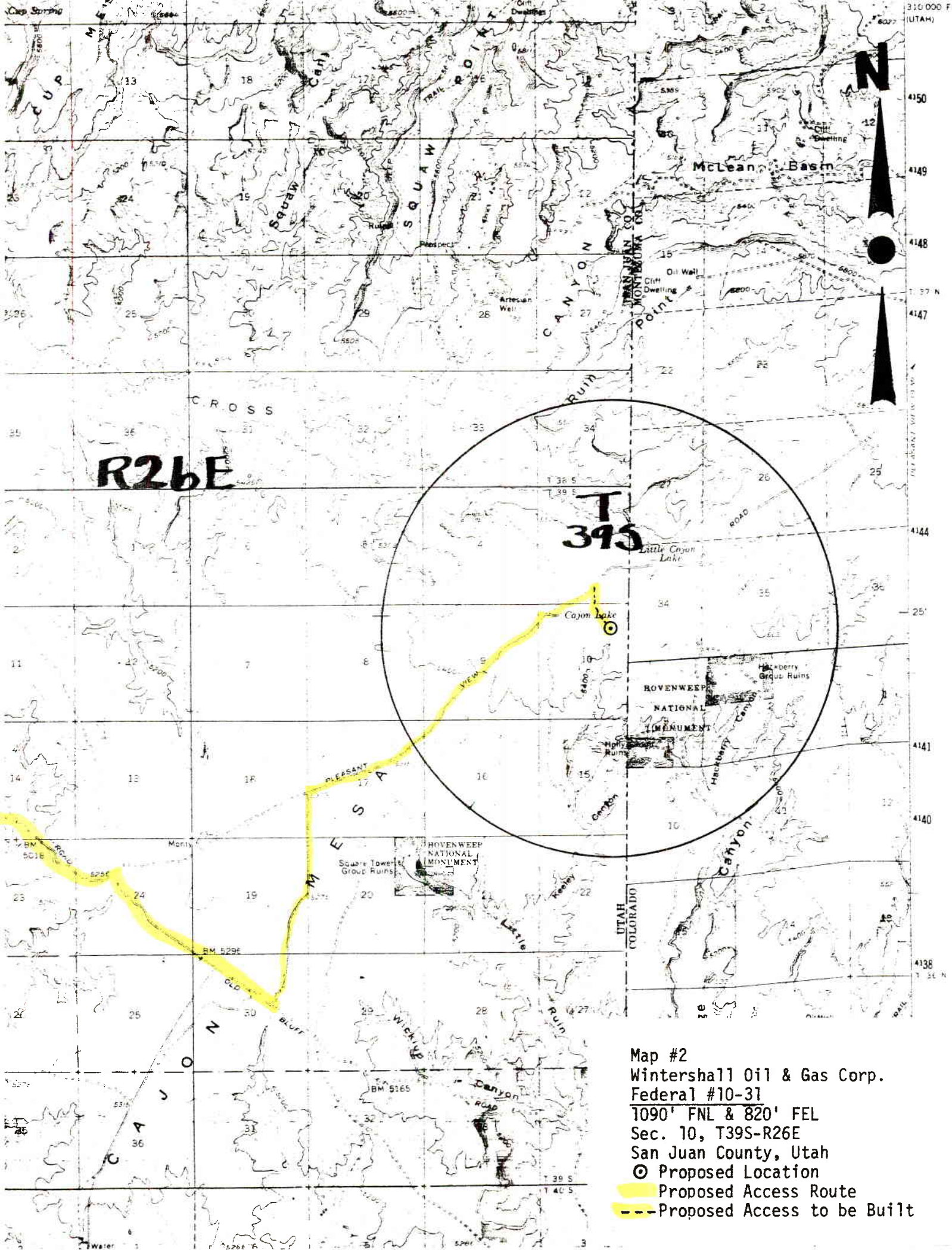
WELL LOCATION AND ACREAGE DEDICATION PLAT



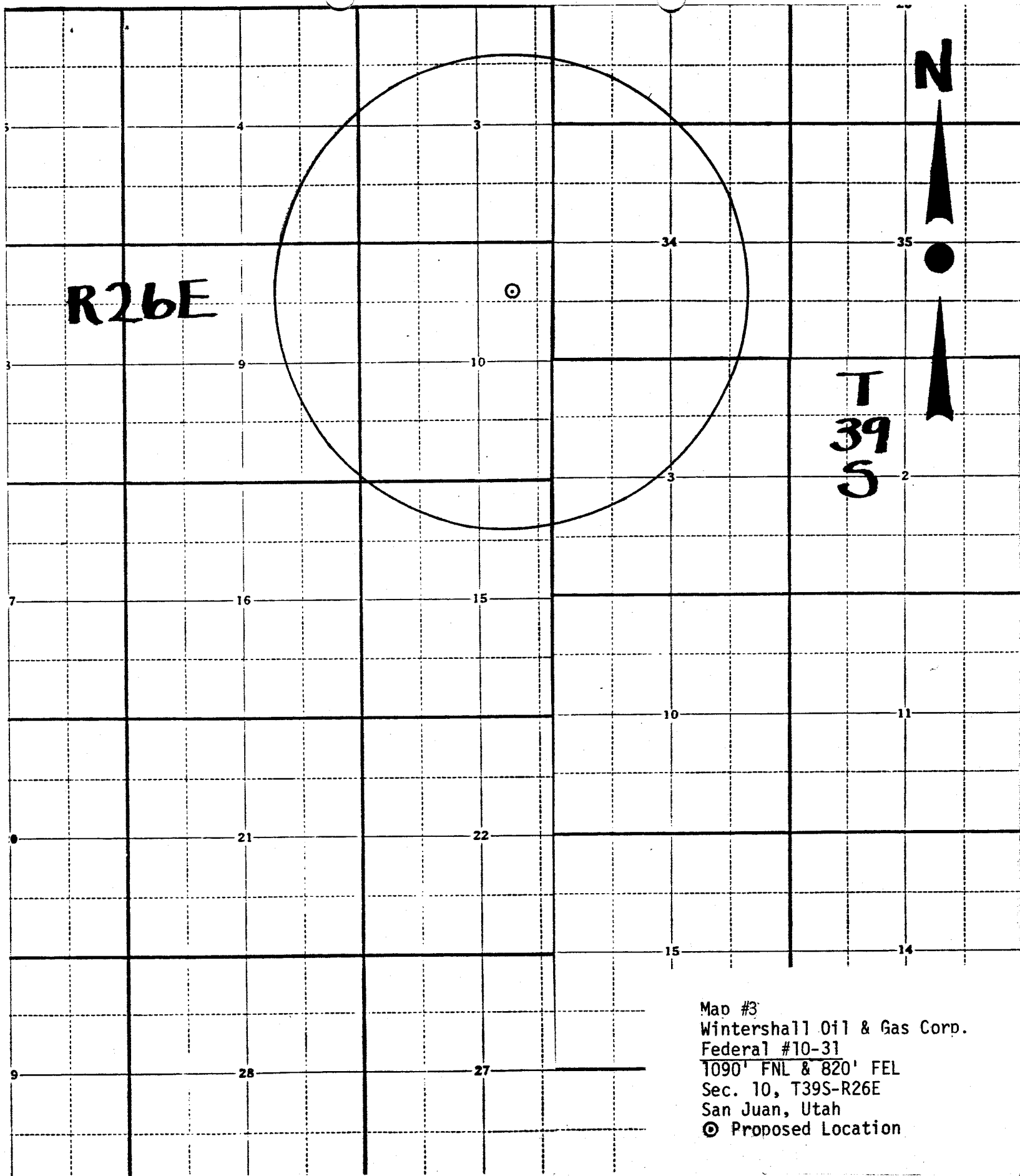
Operator WINTERSHALL O & G		Well name 10-31 Federal	
Section 10	Township 39 South	Range 26 East	Meridian SLM
Footages 1090' FNE 820' FE		County/State San Juan UT	Elevation 5421'
Formation	Dedicated Acreage	Requested by J Lowry	
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>11-11-'85</p> <p><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S. Utah 5705</p>			



Map #1
Wintershall Oil & Gas Corp.
Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan County, Utah
● Proposed Location
--- Proposed Access to be Built
Yellow Proposed Access Route



Map #2
Wintershall Oil & Gas Corp.
Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan County, Utah
○ Proposed Location
— Proposed Access Route
--- Proposed Access to be Built



Map #3
Wintershall Oil & Gas Corp.
Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan, Utah
⊙ Proposed Location

Scale: 1" = 50'

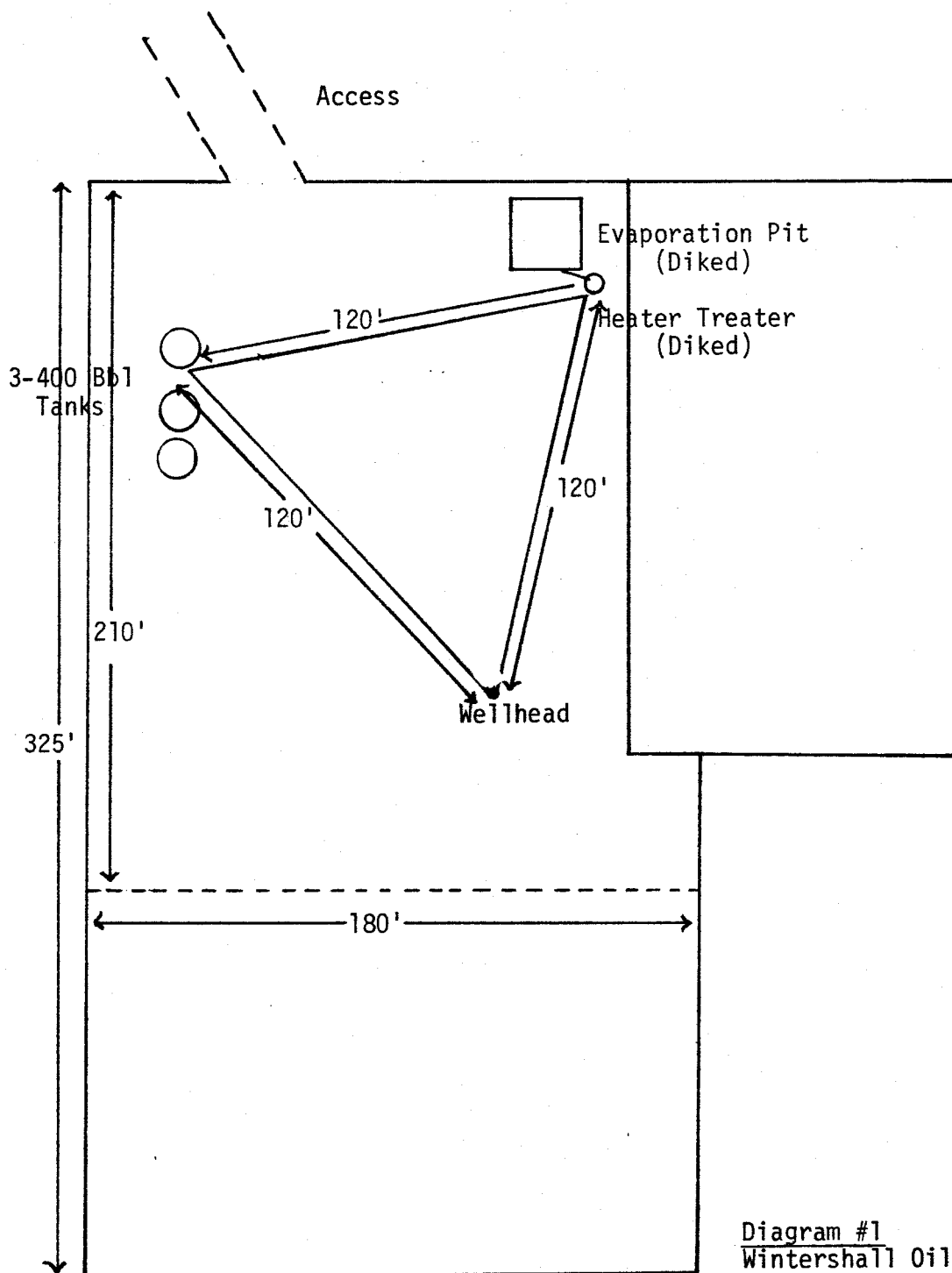


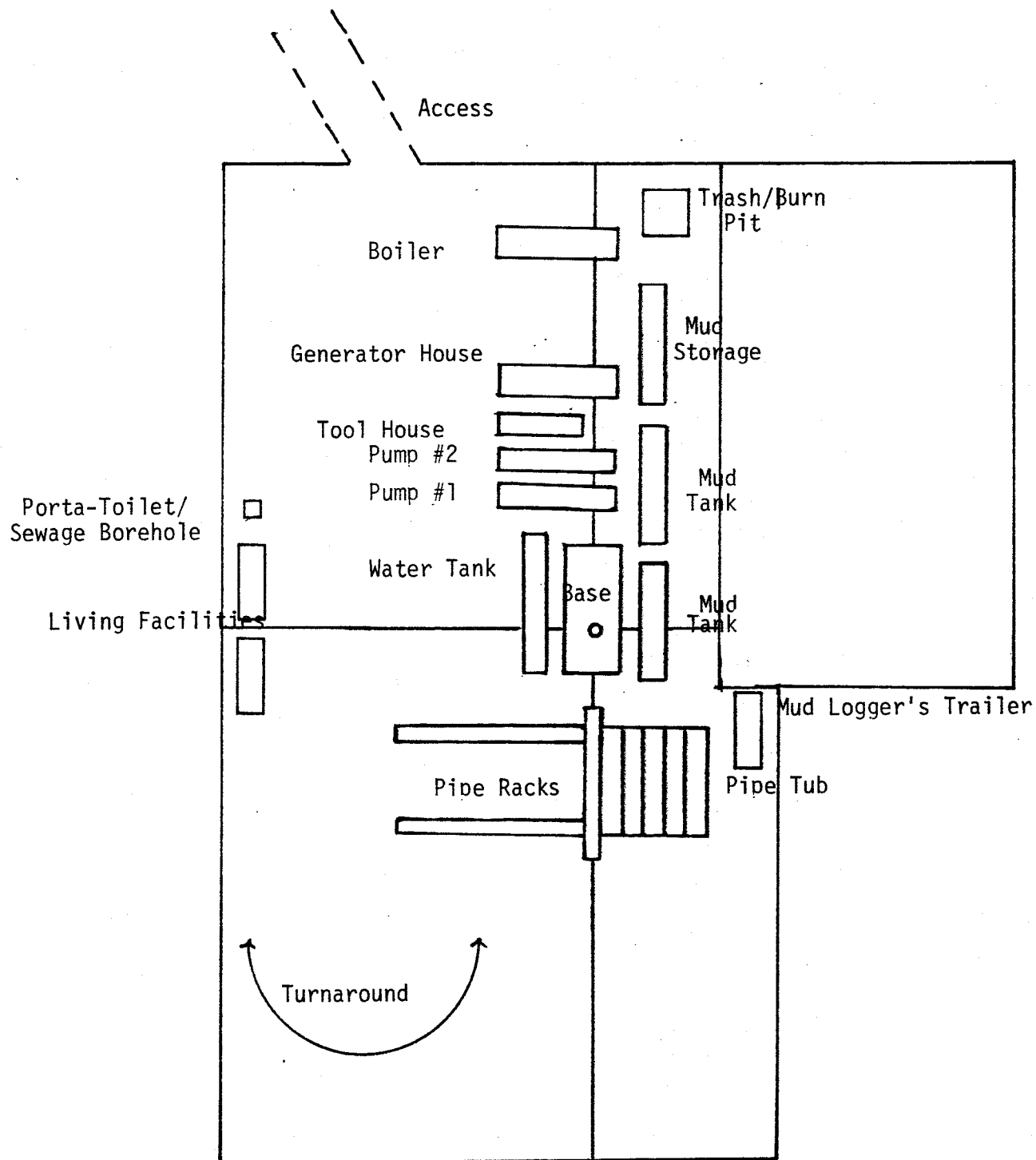
Diagram #1
Wintershall Oil & Gas Corp.

Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan County, Utah

Scale: 1" = 50'

Diagram #2
Wintershall Oil & Gas Corp.

Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan, Utah



WELL PAD CROSS-SECTION

Well 10-31

Cut /////
Fill

Scales: 1"=50' H.
1"=30' V.

1.7 Vertical Exaggeration

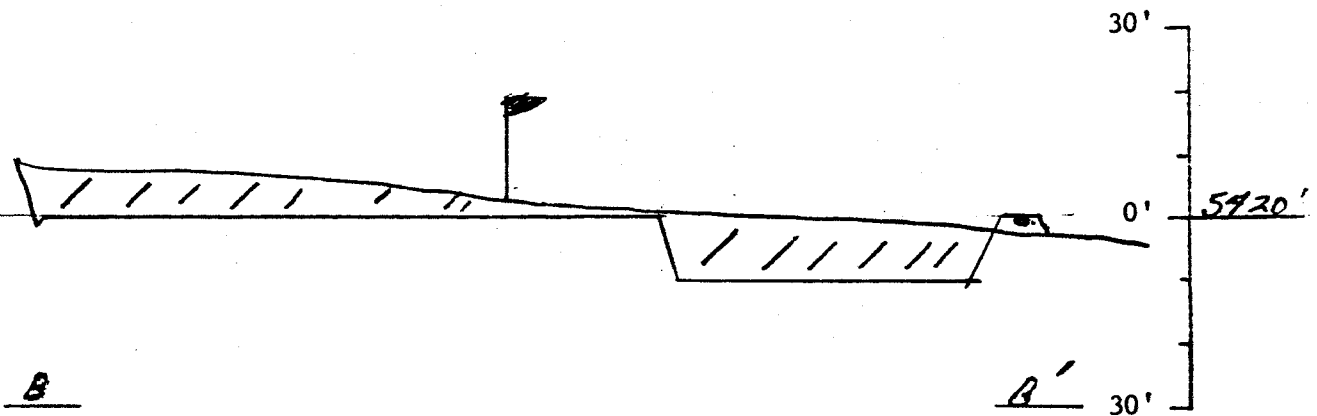
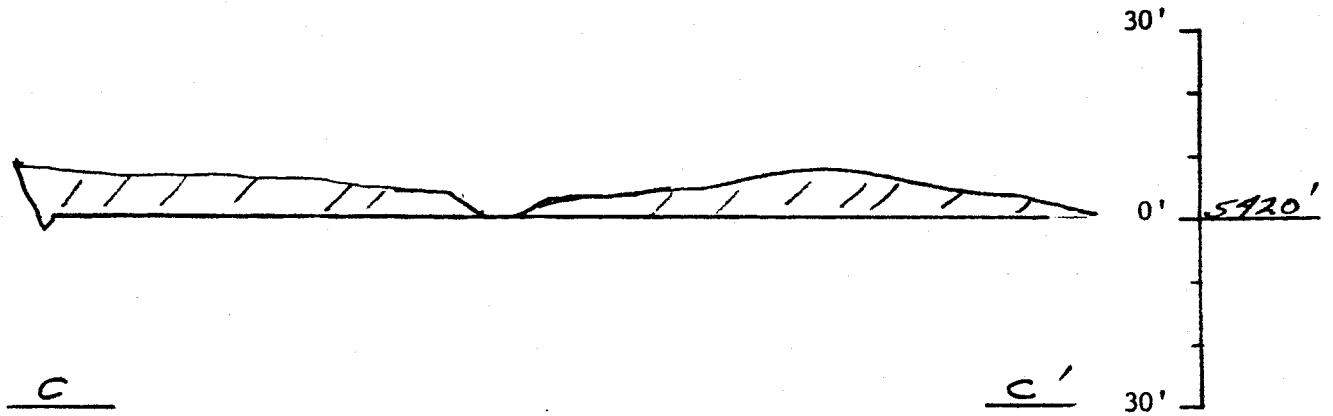


Diagram #3
Wintershall Oil & Gas Corp.
Federal #10-31
1090' FNL & 820' FEL
Sec. 10, T39S-R26E
San Juan County, Utah

WELL PAD PLAN VIEW

Well 10-31

N

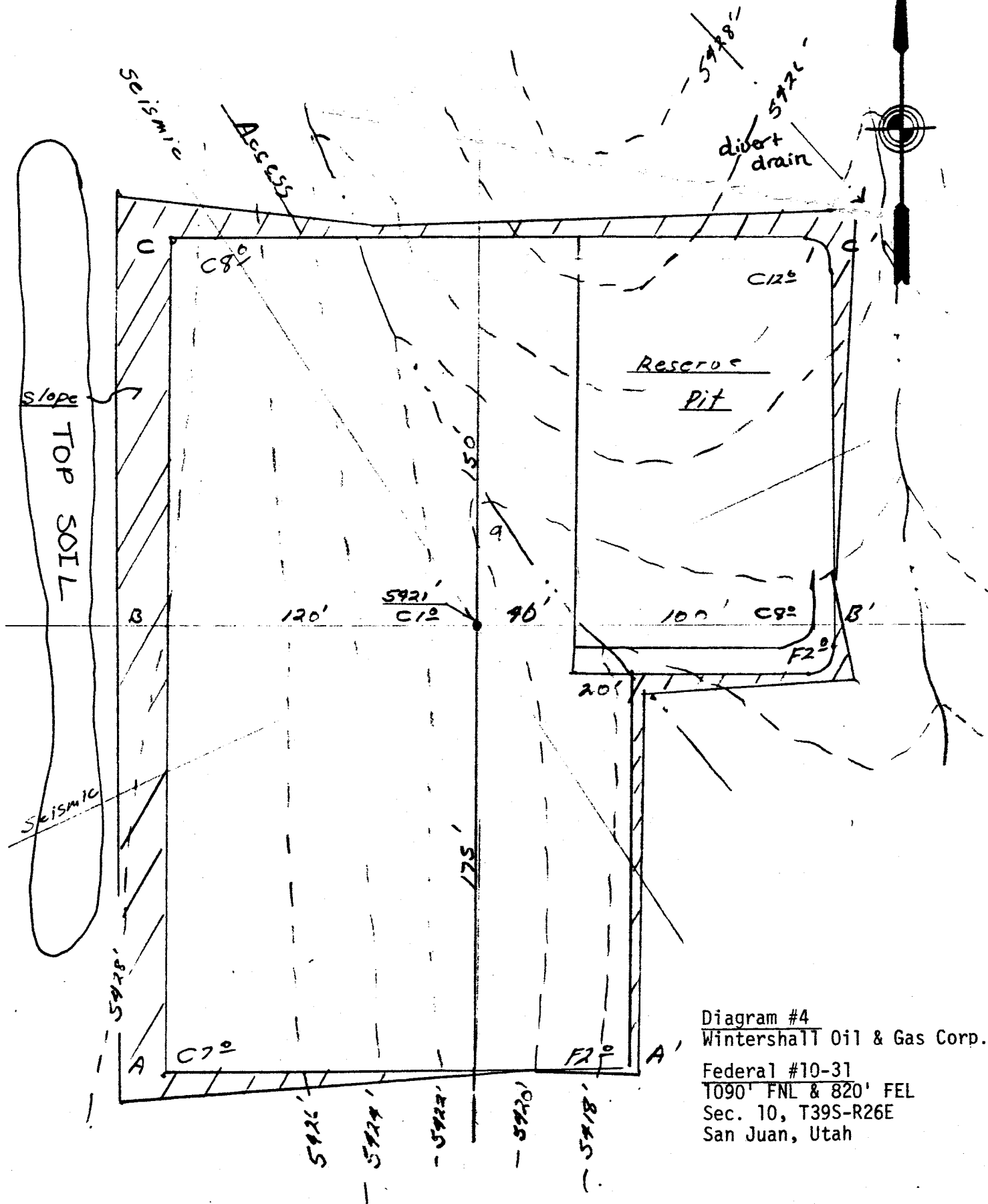


Diagram #4
 Wintershall Oil & Gas Corp.
 Federal #10-31
 T090' FNL & 820' FEL
 Sec. 10, T39S-R26E
 San Juan, Utah

OPERATOR Wintershall Oil & Gas Corp

DATE 11-26-85

WELL NAME Wintershall Fed. 10-31

SEC NE NE 10

T 39S

R 26E

COUNTY San Juan

Large Sec.

43-037-31227

API NUMBER

Fed

TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other wells within 1000'

Need water permits

Exc. loc.

APPROVAL LETTER:

SPACING:



A-3

UNIT



c-3-a

CAUSE NO. & DATE



c-3-b



c-3-c

STIPULATIONS:

1- Water

2- Exc. loc

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Wintershall Oil & Gas Corp.

(303)595-4051

3. ADDRESS OF OPERATOR

5675 DTC Blvd., Suite 200, Englewood, CO 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1090' FNL & 820' FEL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

11 miles East of Hatch Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

Approx. 690'

15. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

4,886.38

19. PROPOSED DEPTH

6250'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5421' GR

22. APPROX. DATE WORK WILL START*

December 15, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	1890'	1150 sxs - or sufficient to circ
7 7/8"	5 1/2"	15.5#	6250'	250 sxs - or sufficient to cover zones of interest

RECEIVED

DEC 23 1985

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

Dana L. Khan

TITLE

Consultant for

Wintershall Oil & Gas Corp

DATE

11/18/85

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

/S/ GENE NODINE

APPROVED BY

TITLE

DISTRICT MANAGER

DATE

20 DEC 1985

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

cc: State of Utah

FLARING OR VENTING OF
GAS IS SUBJECT OF NTL 4-A
DATED 1/1/80

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on
reverse side)

5. Lease Designation and Serial No.

U-50439

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Wintershall Federal

9. Well No.

#10-31

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.
and Survey or Area

Sec. 10, T39S - R26E

12. County or Parrish 13. State

San Juan Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil
Well ☒Gas
Well ☐

Other

Single
Zone ☒Multiple
Zone ☐

2. Name of Operator

Wintershall Oil & Gas Corp. 303/595-4051

3. Address of Operator

5675 DTC Blvd., Suite 200, Englewood, CO 80111

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

1090' FNL and 820' FEL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*

11 miles East of Hatch Trading Post

15. Distance from proposed*

location to nearest

property or lease line, ft.

(Also to nearest drlg. line, if any)

approx. 690'

16. No. of acres in lease

4,886.38

17. No. of acres assigned
to this well

40

18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.

None

19. Proposed depth

6250'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5421' GR

22. Approx. date work will start*

December 15, 1985

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	1890'	1150 sx - or suffic. to circ.
7-7/8"	5-1/2"	15.5#	6500'	250 sx or sufficient to cover zones of interest.

Wintershall Oil & Gas Corp. proposes to drill a well to 6250' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

RECEIVED


DEC 23 1985

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed



Title

Consultant for
Wintershall Oil & Gas Corp.

Date

11/18/85

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

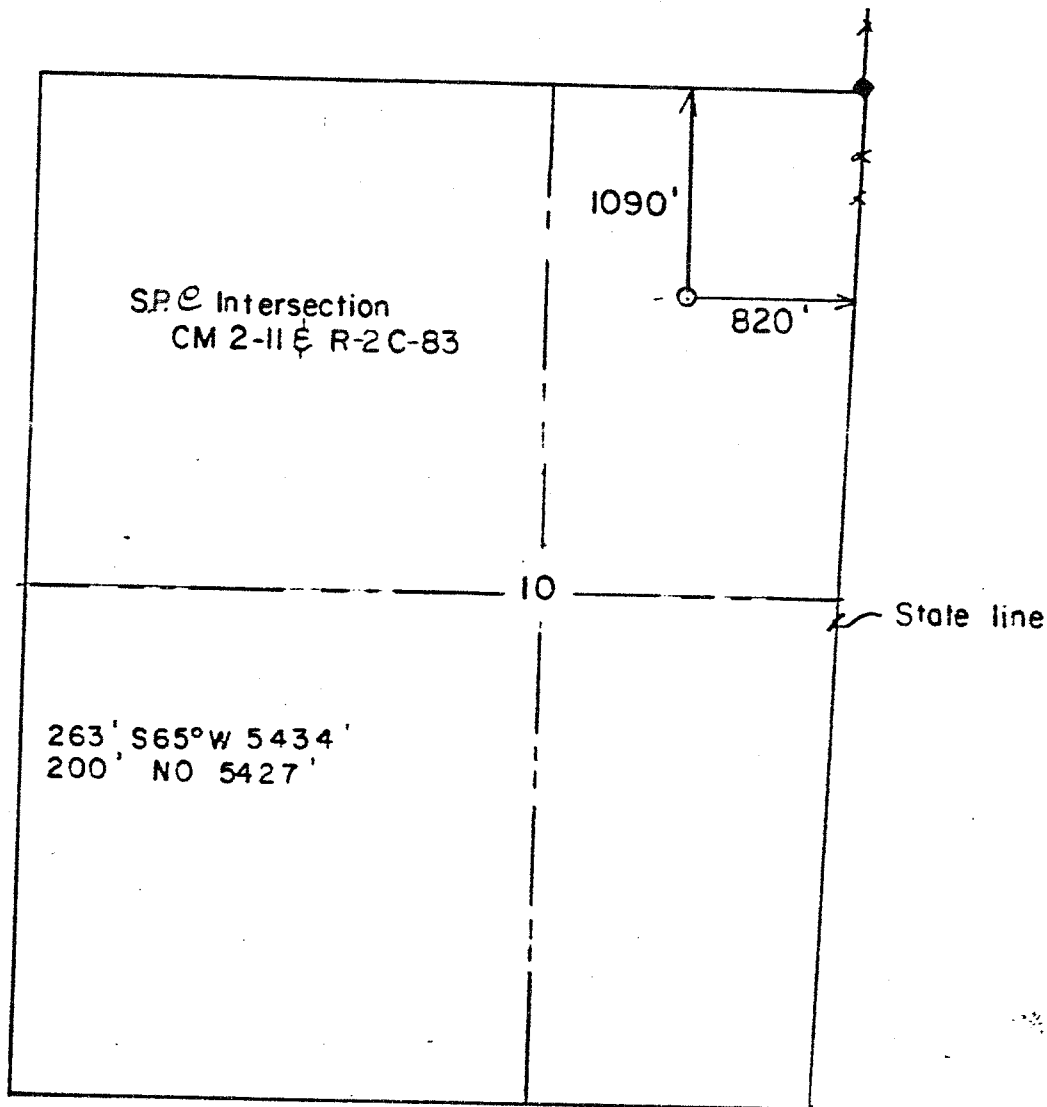
Date

Conditions of approval, if any:

*See Instructions On Reverse Side

PLAT #1

WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator WINTERSHALL O & G		Well name 10-31 Federal	
Section 10	Township 39 South	Range 26 East	Meridian SLM
Footages 1090' FNE 820' FE		County/State San Juan UT	Elevation 5421'
Formation	Dedicated Acreage	Requested by J Lowry	
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>11-11-'85</p> <p><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S. Utah 5705</p>			



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 2, 1985

Wintershall Oil & Gas Corporation
5675 DTC Blvd., Suite 200
Englewood, Colorado 80111

Gentlemen:

Re: Well No. Wintershall Federal 10-31 - NE NE Sec. 10, T. 39S, R. 26E
1090' FNL, 820' FEL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 500 feet of the proposed location.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

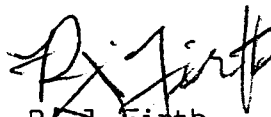
Page 2

Wintershall Oil & Gas Corporation
Well No. Wintershall Federal 10-31
December 2, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31227.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', is written over the typed name.

R. J. Firth
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-037-31227

NAME OF COMPANY: WINTERSHALL PETROLEUM CORP.WELL NAME: Wintershall Federal 10-31SECTION NE NE 10 TOWNSHIP 39S RANGE 26E COUNTY San JuanDRILLING CONTRACTOR ColemanRIG # 3SPUDDED: DATE 1-1-86TIME 1:00 AMHow RotaryDRILLING WILL COMMENCE REPORTED BY Rosie MazzeiTELEPHONE # 303-694-0988DATE 1-2-86 SIGNED AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Wintershall Petroleum Corporation
3. ADDRESS OF OPERATOR
5675 DTC Blvd, #200, Englewood, CO 80111
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1090' FNL & 820' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Change in Operator's Name</u>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please change name of operator from Wintershall Oil and Gas Corporation to Wintershall Petroleum Corporation.

5. LEASE
U-50439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None
7. UNIT AGREEMENT NAME
None
8. FARM OR LEASE NAME
Wintershall Federal
9. WELL NO.
#10-31
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T39S-R26E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-31227
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5421' GR; 5435' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED

JAN 03 1986

DIVISION OF OIL
GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED David P. Howell TITLE Operations Manager DATE 12/31/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Wintershall Petroleum Corporation
3. ADDRESS OF OPERATOR
5675 DTC Blvd, #200, Englewood, CO 80111
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1090' FNL & 820' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT ☐

(other) Well Status ☒

RECEIVED

JAN 06 1986

DIVISION OF OIL
GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
U-50439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None
7. UNIT AGREEMENT NAME
None
8. FARM OR LEASE NAME
Wintershall Federal
9. WELL NO.
#10-31
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T39S-R26E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-31227
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5421' GR; 5435' KB

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well at 1 A.M., 1/1/86. Ran 1 jt., 13-3/8", 61# casing and set at 50'. Cemented with 100 sxs Class B cement. Circulated 2 bbls good cement to surface.

Current operation - drilling ahead at 1868'.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED RA Mazzei TITLE Operations Assistant DATE 1/3/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well ☐ gas well ☐ other2. NAME OF OPERATOR
Wintershall Petroleum Corporation3. ADDRESS OF OPERATOR
5675 DTC Blvd, #200, Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1090' FNL & 820' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐5. LEASE
U-504396. IF INDIAN, ALLOTTEE OR TRIBE NAME
None7. UNIT AGREEMENT NAME
None8. FARM OR LEASE NAME
Wintershall Federal9. WELL NO.
#10-3110. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 10, T39S-R26E

12. COUNTY OR PARISH
San Juan13. STATE
Utah14. API NO.
43-037-3122715. ELEVATIONS (SHOW DF, KDB, AND WD)
5421' GR; 5435' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Ran 49 jts., 9-5/8", 36#, J-55 surface casing and set at 1975.17'.
Cement casing with 200 sxs Class B, 2% CaCl, 1/4# per sx Flocele.
Current operation as of 1/10/86 - drilling ahead at 4986'.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED RA Mazzei TITLE Operations Assistant DATE 1/10/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Wintershall Petroleum Corporation
3. ADDRESS OF OPERATOR
5675 DTC Blvd, #200, Englewood, CO 80111
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1090' FNL & 820' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Well Status</u>		<u>X</u>

5. LEASE
U-50439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None
7. UNIT AGREEMENT NAME
None
8. FARM OR LEASE NAME
Wintershall Federal
9. WELL NO.
#10-31
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T39S-R26E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-31227
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5421' GR; 5435' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Reached total depth of 6133' on 1/17/86. Preparing to log well.

RECEIVED

JAN 21 1986

DIVISION OF OIL
GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Operations Mgr. DATE 1/17/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CC: Utah OGMD

RECEIVED

JAN 24 1986

DIVISION OF OIL
GAS & MINING

IGT

WINTERSHALL OIL & GAS CORP.
FEDERAL 10-31 STATELINE
SEC. 10, T39S-R26E
SAN JUAN COUNTY, UTAH

INTERMOUNTAIN GEO-TECH, INC.
P. O. BOX 158
DELTA, CO 81416
303-874-7762

WINTERSHALL OIL & GAS CORP.
FEDERAL 10-31 STATELINE
SEC. 10, T39S-R26E
SAN JUAN COUNTY, UTAH

January 19, 1986

The Wintershall, Federal 10-31 Stateline well was spudded on 12/31/85. 13 3/8" casing was set at 50 ft. 9 5/8" casing was set at 1975 ft.

IGT Unit #3 was on location, rigged up and logging on 1/6/86 at a depth of 3880 ft. Drilling went smoothly averaging 350 ft. per day until a bit trip was run on 1/8/86.

Drilling resumed and continued averaging 320 ft. per day until 1/11/86 when another bit trip was made. Drilling resumed and the Upper Ismay formation was encountered on 1/13/86 at a depth of 5803 ft. The Upper Ismay was drilled, samples were circulated up and found to contain evaporites. A chloride check of the mud indicated salt.

At this time the decision was made to change the mud system from fresh water mud to saturated salt water mud. Drilling did not resume until the afternoon of 1/15/86. Total depth was reached on 1/16/86 at 6133 ft. Electric logs were run on 1/16/86 and 1/17/86 immediately followed by a velocity survey.

IGT Unit #3 was released on 1/17/86.

Jan A. Johnson
Geologist - IGT

WINTERSHALL OIL & GAS CORP.
FEDERAL 10-31 STATELINE
SEC. 10, T39S-R26E
SAN JUAN COUNTY, UTAH

TABLE OF CONTENTS

1. SUMMARY OF DAILY ACTIVITY	1
2. BIT RECORD	2
3. DEVIATION SHEET	3
4. FORMATION TOPS	4
5. DST AND SHOW SHEET	5

(1) COPY, FINAL MUDLOG (5"=100')
(1) COPY, FINAL MUDLOG (2.5"=100')

DRILLING CONTRACTOR: COLEMAN RIG #3
FARMINGTON, NEW MEXICO

DRILLING FOREMAN: MR. LEO LEWIS

PUSHER: MR. GLEN STORIE

GEO TECHNOLOGISTS: MS. JAN JOHNSON - MR. DAVE MEADE
INTERMOUNTAIN GEO-TECH, INC.
P. O. BOX 158
DELTA, CO 81416

DRILLING FLUID: MR. JOHN HUNTER
HUNTER MUD CO.
FARMINGTON, NEW MEXICO

WIRE LINE LOGS: MR. MATT GARBER
SCHLUMBERGER
FARMINGTON, NEW MEXICO

GEOLOGIST: MR. RIC KOPP
WINTERSHALL OIL & GAS CORP.
DENVER, CO

WINTERSHALL OIL & GAS CORP.
FEDERAL 10-31 STATELINE
SEC. 10, T39S-R26E
SAN JUAN COUNTY, UTAH

SUMMARY OF DAILY ACTIVITY

DATE	ACTIVITY	MIDNITE DEPTH	24 HOUR FOOTAGE
1/06/86	IGT UNIT #3 ON LOCATION, RIGGED UP, LOGGING	--	--
1/07/86	DRLG, SURV, DRLG	3893'	426'
1/08/86	DRLG, BIT TRIP, DRLG	4319'	256'
1/09/86	DRLG, SURV	4575'	336'
1/10/86	SURV, DRLG	4911'	319'
1/11/86	DRLG, BIT TRIP & SURV, DRLG	5230'	173'
1/12/86	DRLG	5403'	233'
1/13/86	DRLG, CIRC SPL, DRLG, CIRC BTMS UP, TOH TO CHANGE MUD SYSTEM	5636'	238'
1/14/86	TOH TO CHANGE MUD SYSTEM, CHANGE OUT MUD	5874'	0
1/15/86	CHANGE OUT MUD SYSTEM, TIH, DRLG	5874'	130'
1/16/86	DRLG, "E" LOGS	6004'	127'
1/17/86	"E" LOGS, VELOCITY SURV, IGT UNIT #3 RELEASED	6131'	--

WINTERSHALL OIL & GAS CORP.
 FEDERAL 10-31 STATELINE
 SEC. 10, T39S-R26E
 SAN JUAN COUNTY, UTAH

BIT RECORD

BIT	MAKE	SIZE	TYPE	DEPTH OUT	FOOTAGE USED	HOURS
1	STC	12¼"	F-4	50'	50'	1½
2	HTC	17½"	21J	50'	50'	1½
3	STC	12¼"	F-4	1986'	1936'	38½
4	STC	7 7/8"	F-27	4412'	2426'	88½
5	VAREL	7 7/8"	V537	5353'	941'	69
6	VAREL	7 7/8"	V537	5873'	520'	49
7	VAREL	7 7/8"	V537	6133'	260'	22¼

WINTERSHALL OIL & GAS CORP.
 FEDERAL 10-31 STATELINE
 SEC. 10, T39S-R26E
 SAN JUAN COUNTY, UTAH

DEVIATION SHEET FOR WELL. . . .

<u>DEPTH</u>	<u>DEVIATION (DEV)</u>
50'	$\frac{1}{2}^{\circ}$
545'	1 $^{\circ}$
746'	$\frac{3}{4}^{\circ}$
1267'	$\frac{1}{4}^{\circ}$
1782'	1 $^{\circ}$
2264'	$\frac{1}{4}^{\circ}$
2733'	$\frac{3}{4}^{\circ}$
3236'	1 $^{\circ}$
3691'	$\frac{3}{4}^{\circ}$
4195'	$1\frac{1}{4}^{\circ}$
4412'	1 $^{\circ}$
4911'	1 $^{\circ}$
5353'	1 $^{\circ}$
5873'	$\frac{1}{4}^{\circ}$

WINTERSHALL OIL & GAS CORP.
FEDERAL 10-31 STATELINE
SEC. 10, T39S-R26E
SAN JUAN COUNTY, UTAH

FORMATION TOPS

<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>E-LOG TOP</u>	<u>SUB-SEA</u>
HONAKER TRAIL	4706'	4824'	
PARADOX SHALE	5772'	5782?	
UPPER ISMAY	5803'	5802'	-368'
HOVENWEEP SHALE	5916'	5926'	-492'
LOWER ISMAY	5918'	5940'	-506'
GOTHIC SHALE	5992'	6002'	-568'
DESERT CREEK	6006'	6012'	-578'
CHIMNEY ROCK	6081'		
AKAH	6101'	6098?	
PARADOX EVAPORITES	6130'		

(IGT)
DST & SHOW SHEET

SHOW # 1 FROM 5600 ' TO 5610 ' DATE 1/12/86

COMPANY WINTERSHALL OIL & GAS CORP.
WELL FEDERAL 10-31 STATELINE
FIELD WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	5½ min/ft	4½-3 min/ft	5½ min/ft
TOTAL GAS UNITS	0	29 Units	1 Unit
METHANE %	--	0.63%	tr
ETHANE %	--	0.14%	--
PROPANE %	--	0.05%	--
BUTANE (ISO) %	--	--	--
BUTANE (NOR) %	--	--	--
PENTANE %			

SAMPLE LITHOLOGY LS-WH-BF MICXL-CRPXL VFXL-GRAN IP RTHY-DKY IP FOS IP V SL ANHY
OCC CLN TT-TR INTXL-RR PP VUG POR MERM-MHD
SAMPLE FLOR AND CUT TR SPY DULL GOLD FLOR TR BRN-DK BRN STN-RR DD OIL STN
G STMG MKY CUT

DST # _____ FROM _____ ' TO _____ ' DATE _____
MINUTES TOP CHART BOTTOM CHART

INITIAL HYDROSTATIC
INITIAL OPEN
INITIAL SHUT-IN
SECOND OPEN
SECOND SHUT-IN
FINAL HYDROSTATIC
1ST FLOW
2ND FLOW
REMARKS BHT^o
DRILL PIPE RECOVERY
SAMPLE CHAMBER RECOVERY
DRILL PIPE- TOP- R/W= at ^oF, MIDDLE-R/W= at ^oF,
DRILL PIPE- BOTTOM-R/W= at ^oF, SAMPLE CHMR- R/W= at ^oF,
PIT MID-R/W= at ^oF

GEO-TECH Dave Meade

RECEIVED

JAN 24 1986

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

DIVISION OF OIL
GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Wintershall Federal #10-31
Operator Wintershall Petroleum Corp. Address 5675 DTC Boulevard, Ste. 200
Englewood, CO 80111
Contractor Coleman Drilling Co. Address Drawer 3337, Farmington, NM
87499
Location NW 1/4 NE 1/4 Sec. 10 T. 39S R. 26E County San Juan Co.

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	3632-	3654'	No rate	Salt Water
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>					
Morrison	90'	Honaker Trail	4824'	Akah	6108'
Entrada	1080'	Upper Ismay	5803'		
Navajo	1228'	Lower Ismay	5938'		
<u>Remarks</u>	Chinle	1962'	Gothic	6002'	
	DeChelly	2850'	Upper Desert Creek	6012'	
	Cutler	2946'	Lower Desert Creek	6074'	

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Sent 1/21/86

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
Wintershall Petroleum Corporation

3. ADDRESS OF OPERATOR
5675 DTC Blvd, #200, Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1090' FNL & 820' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(other)	

5. LEASE
U-50439

6. IF INDIAN, ALLOTTEE OR TRIBE
None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Wintershall Federal

9. WELL NO.
#10-31

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T39S-R26E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-31227

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5421' GR; 5435' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plugged well as follows per approval of the BLM.

Plug #1 5800-5700' 38 sxs Class B with 2% CaCl.
Plug #2 2950-2850' 50 sxs Class B with 2% CaCl.
Plug #3 2025-1925' 46 sxs Class B with 2% CaCl.
Plug #4 100-Sfc. 38 sxs Class B with 2% CaCl.

Clean pits. Released drilling rig at 10 a.m., 1/19/86.
Well plugged and abandoned.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John R. Beyer TITLE Operations Mgr. DATE 1/22/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD

*See Instructions on Reverse Side

1-28-86
John R. Beyer

Form approved.
Budget Bureau No. 42-R355.5.

cc: Utah OGMD

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NO DSTs WERE CONDUCTED.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Bluff	814'	
Entrada	1,080'	
Navajo	1,228'	
Chinle	1,962'	
DeChelley	2,850'	
Cutler	2,946'	
Honaker Trail	4,824'	
Upper Ismay	5,803'	
Lower Ismay	5,938'	
U. Desert Creek	6,012'	
L. Desert Creek	6,074'	
Chimney Rock	6,090'	
Akah	6,108'	
Paradox Salt	6,133'	



FORM 1906 B9

PAGE 1 OF _____ PAGES

DUNCAN USE ONLY

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists, invoices payable NET by the 20th of the following month after the date of invoice. Upon Customer's default in the payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereafter at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay the collection cost and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATE PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement or repair of such materials. In no event shall Halliburton, or at Halliburton's option, the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

[illegible]

NOT THIS IS AN INTELLIGENCE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-543480

2162. 18

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____
 x heo L. Lewis
 CUSTOMER OR HIS AGENT (PLEASE PRINT)
 x Leo L. Lewis
 CUSTOMER OR HIS AGENT (SIGNATURE)

TAX REFERENCES

SUB TOTAL

TAX

TAX

2000

TOTAL

HALLIBURTON OPERATOR

CUSTOMER

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT



FOR INVOICE AND
TICKET NO. _____

225-26

A Division of Halliburton Company
DUNCAN, OKLAHOMA 73536

[illegible]

FORM 1911-R5 REV. 9-81

CUSTOMER

WORK ORDER CONTRACT
AND PRE-TREATMENT DATAATTACH TO
INVOICE & TICKET NO. 225-261DISTRICT ConchoDATE 1/15/86

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Winfield

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING (CUSTOMER)

WELL NO. 10-31 LEASE Winfield SEC. 1 TWP. 1 RANGE 1FIELD 5 COUNTY St. Johns STATE Okla OWNED BY

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE _____ SET AT _____

TOTAL DEPTH _____ MUD WEIGHT _____

BORE HOLE _____

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCFPRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING						
LINER						
TUBING	used	16.6	4 1/2	K6	5500	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☒ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☐ HYDRAULIC HORSEPOWER ORDERED _____

1st plug 5800-5900 100 FL

2nd plug 5950-5950 100 FL

3rd plug 5925-5925 100 FL

4th plug 100-5000 100 FL

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
- Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT
THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.SIGNED Leo S. LewisDATE 1/15/86TIME 2:00 A.M. P.M.

CUSTOMER

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with
in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

HALLIBURTON SERVICES JOB SUMMARY

FORM 2012 R-2

DIVISION
HALLIBURTON
LOCATION

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RING. _____ COUNTY San Juan STATE N.M.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

CASING _____ NEW USED _____ WEIGHT _____ SIZE _____ FROM _____ TO _____ MAXIMUM PSI ALLOWABLE _____

LINER _____

TUBING _____

OPEN HOLE _____ SHOTS/FT. _____

PERFORATIONS _____

PERFORATIONS _____

PERFORATIONS _____

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
1-18-86	1900	1-18-86	2000	1-19-86	2255	1-19-86	0415

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
P. Halden	35150	Portez
E. Williams	51018	
B. Lewis	0103	

DEPARTMENT 1114

DESCRIPTION OF JOB P.T.A.

JOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE P. Leo S. Lewis

HALLIBURTON OPERATOR P. Halden COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	180		B		B	2% C.C. - one side	1.18	1.16

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESURUS: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL 38

TOTAL VOLUME: BBL-GAL _____

HYDRAULIC HORSEPOWER

REMARKS

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

CUSTOMER

POOR COPY

HALLIBURTON SERVICES JOB LOG

W NO. 10-31 LEASE Wintershall TICKET NO. 225261
 CUSTOMER Wintershall PAGE NO. 1
 JOB TYPE P.T.A DATE 1/18/86

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	PUMPING	CASING	
	0100							called out
	0100							on location
	0135	6	97.5			600	—	started pumping 1st plug 10 BBL H ₂ O, 8 BBL ant, 3.5 BBL H ₂ O and 76 BBL mud at 5800 Ft.
	0100	5	56.5			400	—	started pumping 2nd plug 10 BBL H ₂ O, 10.5 BBL ant, 3.5 BBL H ₂ O, 35.5 BBL mud at 2950 Ft.
	0200	4	43.5			300	—	started pumping 3rd plug 10 BBL H ₂ O, 9 BBL ant, 3.5 BBL H ₂ O, and 33 BBL mud at 2025 Ft.
	0343	2	8			100		started pumping 100 Ft. plug at surface
	0413							job completed had full circulation throughout job
								Charles for all i Hovers
								Lindy G. Hilde

CUSTOMER

POOR COPY